We define the singularity degree of a face which is not necessarily facially exposed. We show that the singularity degree of a linear conic optimization problem is equal to the singularity degree of the minimal face on the linear image of the convex cone. As an application, we give a bound of the singularity degree for generic frameworks and tensegrities underlying a Laman plus d graph (Laman graph plus d edges). This is joint work with Henry Wolkowicz.

FEI WANG, Fields Institute and University of Waterloo *Singularity degree for non-facially exposed faces*